

Serial No. 09/601,868

Art Unit: 1751

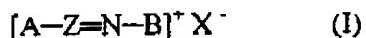
Amendments to the Claims

10. (Previously Added) A composition for permanently waving hair comprising:

a) at least one cationic dye, wherein the cationic dye is present in an amount effective to color hair and has a quaternary nitrogen atom that may be optionally delocalizable and an $-X=N-$ bond, wherein X is a nitrogen atom or a $-CH-$ group; and

b) at least one oxidative fixing agent for permanently waving the hair.

11. (Previously Added) The composition of claim 10 wherein the cationic dye is represented by formula I:



wherein Z is a nitrogen atom or a CH group;

A and B are independently of one another, a benzene ring or aromatic heterocycle group that is substituted or unsubstituted; and

X⁻ is an anion.

12. (Previously Added) The composition of claim 11 wherein A or B or both have one or more substituents selected from halogen atoms, NR₁R₂ groups, or OR₁ groups, wherein R₁ and R₂ are independently selected from hydrogen, a C₁ to C₈ alkyl group, a C₁ to C₄ hydroxyalkyl group, or a phenyl group.

13. (Previously Added) The composition of claim 10 wherein the cationic dye comprises 4-aminophenylazo-2-hydroxy-7-trimethylammoniumnaphthalene chloride, 2-methoxyphenylazo-2-hydroxy-7-trimethylammoniumnaphthalene chloride, 4-amino-3-nitrophenylazo-2-hydroxy-7-trimethylammoniumnaphthalenechloride, 3-trimethylammoniumphenylazo-4N-phenyl-2-methyl-5-hydroxypyrazole chloride, (1-

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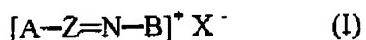
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methyl-1-phenyl)-2-(1-methine-4N-methylpyridinium) hydrazine chloride, (1-methyl-1-paramethoxyphenyl)-2-(1-methine-4N-methylpyridinium) hydrazine chloride, (1-methyl-1-paramethoxyphenyl)-2-(1-methine-4N-methylpyridinium) hydrazine methylsulfate, 4-dimethylaminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-dimethylaminophenylazo-2N-methyl-3N-methylpyrazolium chloride, 4-methylaminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-aminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-dimethylaminophenylazo-4N-methylpyridinium chloride, 4-dimethylaminophenylazo-4N-oxypyridinium chloride, 4-(4-aminophenylamino)phenylazo-2N-methyl-5N-methylimidazolium, or 3-amino-7-(dimethylamino)-2-methoxyphenoxazine-5-ium chloride, or combinations thereof.

14. (Previously Added) The composition of claim 10 wherein the cationic dye is present in an amount of from 0.001 weight percent to 3 weight percent, based on the total weight of the composition.

15- 16. (Cancelled)

17. (Currently Amended) The kit of claim [16] 26 wherein the cationic dye is represented by formula I:



wherein Z is a nitrogen atom or a CH group;

A and B are independently of one another, a benzene ring or aromatic heterocycle group that is substituted or unsubstituted; and

X⁻ is an anion.

18. (Currently Amended) The kit of claim [15] 26 wherein the cationic dye comprises 4-aminophenylazo-2-hydroxy-7-trimethylammoniumnaphthalene chloride,

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2-methoxyphenylazo-2-hydroxy-7-trimethylammoniumnaphthalene chloride, 4-amino-3-nitrophenylazo-2-hydroxy-7-trimethylammoniumnaphthalenechloride, 3-trimethylammoniumphenylazo-4N-phenyl-2-methyl-5-hydroxypyrazole chloride, (1-methyl-1-phenyl)-2-(1-methine-4N-methylpyridinium) hydrazine chloride, (1-methyl-1-paramethoxyphenyl)-2-(1-methine-4N-methylpyridinium) hydrazine chloride, (1-methyl-1-paramethoxyphenyl)-2-(1-methine-4N-methylpyridinium) hydrazine sulfate, 4-dimethylaminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-dimethylaminophenylazo-2N-methyl-3N-methylpyrazolium chloride, 4-methylaminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-aminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-dimethylaminophenylazo-4N-oxidopyridinium chloride, 4-(4-aminophenylamino)phenylazo-2N-methyl-5N-methylimidazolium, or 3-amino-7-(dimethylamino)-2-methoxyphenoxazine-5-ium chloride, or combinations thereof.

19. (Previously Added) A method of permanently waving hair comprising

(a) applying a reducing solution to hair wherein the reducing solution comprises at least one reducing agent;

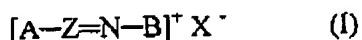
(b) applying at least one oxidative fixing solution to the hair wherein the oxidative fixing solution comprises at least one oxidative fixing agent for permanently waving the hair; and

(c) applying to the hair at least one cationic dye in an amount effective to color the hair and having a quaternary nitrogen atom that is optionally delocalizable and an $-X=N-$ bond, wherein X is a nitrogen atom or a $-CH-$ group, and wherein the cationic dye is applied to the hair (i) as a component of the oxidative fixing solution, or (ii) as a component of a third solution after application of the oxidative fixing solution, or (iii) both.

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20. (Previously Added) The method of claim 19 wherein the cationic dye is represented by formula I:



wherein Z is a nitrogen atom or a CH group;

A and B are independently of one another, a benzene ring or aromatic heterocycle group that is substituted or unsubstituted; and

X⁻ is an anion.

21. (Previously Added) The method of claim 20 wherein A or B or both have one or more substituents selected from halogen atoms, NR₁R₂ groups, or OR₁ groups, wherein R₁ and R₂ are independently selected from hydrogen, a C₁ to C₈ alkyl group, a C₁ to C₄ hydroxyalkyl group, or a phenyl group.

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22. (Previously Added) The method of claim 21 wherein the cationic dye comprises 4-aminophenylazo-2-hydroxy-7-trimethylammoniumphthalene chloride, 4-2-methoxyphenylazo-2-hydroxy-7-trimethylammoniumnaphthalene chloride, 4-amino-3-nitrophenylazo-2-hydroxy-7-trimethylammoniumnaphthalenechloride, 3-trimethylammoniumphenylazo-4N-phenyl-2-methyl-5-hydroxypyrazole chloride, (1-methyl-1-phenyl)-2-(1-methine-4N-methylpyridinium) hydrazine chloride, (1-methyl-1-paramethoxyphenyl)-2-(1-methine-4N-methylpyridinium) hydrazine chloride, (1-methyl-1-paramethoxyphenyl)-2-(1-methine-4N-methylpyridinium) hydrazine methylsulfate, 4-dimethylaminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-dimethylaminophenylazo-2N-methyl-3N-methylpyrazolium chloride, 4-methylaminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-aminophenylazo-2N-methyl-5N-methylimidazolium chloride, 4-dimethylaminophenylazo-4N-oxidopyridinium chloride, 4-(4-aminophenylamino)phenylazo-2N-methyl-5N-methylimidazolium, or 3-amino-7-(dimethylamino)-2-methoxyphenoxazine-5-um chloride, or combinations thereof.

23. (Previously Added) The method of claim 19 wherein the cationic dye is present in the oxidative fixing solution or the third solution in an amount of from 0.001 weight percent to 3 weight percent, based on the total weight of the solution.

24. (Previously Added) The method of claim 19 wherein the solution containing the cationic dye has a pH of 5 or greater.

25. (Previously Added) The method of claim 24 wherein the solution containing the cationic dye comprises 60 weight percent or greater water.

26. (New) A two-package kit for permanently waving hair comprising:

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(a) a first solution in one package containing at least one reducing agent; and
(b) a second solution in a second package containing at least one cationic dye,
wherein the cationic dye is present in an amount effective to color hair and has a
quaternary nitrogen atom that is optionally delocalizable and an -X=N- bond, wherein
X is a nitrogen atom or a -CH- group, and at least one oxidative fixing agent for
permanently waving the hair.